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AkzoNobel
Tomorrow's Answers Today

September 19, 2011

Office of Pollution Prevention and Toxics
EPA East – Room 6428 Attn: Section 8(e)
U.S. Environmental Protection Agency
1201 Constitution Avenue, NW
Washington, DC 20004-3302

ATTENTION: TSCA 8(e) Notice

Dear U.S. EPA:

On behalf of Akzo Nobel Surface Chemistry LLC, we are submitting results from an OECD 407, 4-week repeated dose study including a 4-week recovery period on Coco amidopropyldimethylamine (CAS# 68140-01-2) under Section 8(e) of TSCA.

In the OECD 407 study, groups of 5 male and 5 female rats were treated by gavage once daily for up to 29 consecutive days. In this study two satellite groups of 5 male and 5 female rats were included in the control group and the high-dose group. These animals were kept for a 4-week recovery period after treatment for observation of reversibility, persistence or delayed occurrence of systemic / irritative effects. The Control Group was dosed with the vehicle only (corn oil).

The following dose levels were selected as follows:
- Control Group: 0 mg/kg body weight/day
- Low Dose Group: 30 mg/kg body weight/day
- Mid Dose Group: 60 mg/kg body weight/day
- High Dose Group: 120 mg/kg body weight/day

A trend towards a lower body weight gain was noted in treated animals associated with a decrease in food consumption in high-dose group when compared to control group. These effects were reversible during the recovery period.

At necropsy white discoloration of the fore stomach was observed in the mid- and high-dose groups confirming the strong irritative/corrosive properties of the test substance. In the satellite groups no test item-related changes were observed at necropsy. Microscopic examination revealed signs of pronounced irritation of the fore stomach in

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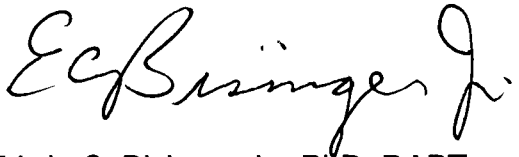
the mid- and high-dose groups. These signs consisted of acanthosis, hyperkeratosis, erosion/ulcer, edema with mixed infiltrate of inflammatory cell in the submucosa and correlated with the white discoloration seen at necropsy. In the low-dose group changes in the fore stomach were also present but with lower severity and incidence.

Furthermore, the microscopic examination after a 4-week recovery period showed a pronounced decrease in the incidence and severity of changes observed in the fore stomach but the recovery was not complete. Acanthosis and hyperkeratosis were still observed.

The NOAEL with respect to systemic toxic effects was considered to be 60 mg/kg/day because of lower food intake and slight reduction in body weight gain observed in animals treated at 120 mg/kg/day. A NOAEL for local effects could not be established because of irritation observed in the fore stomach of all treated groups. However, in the absence of a similar structure in the human stomach, the relevance of the findings in the rat non-glandular portion of the stomach (fore stomach) with respect to human health is not known.

Please contact me if you have any questions at 312-544-7191.

Sincerely,



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